

PLOMECKI, F.; STANOWY, L.

The use of metal lining in Koepe pulleys of hoisting machines. p. 187.

PRZEGLAD GORNICZY. Katowice, Poland, Vol. 5, no. 4, Apr. 1959.

Monthly List of East European Accessions (EEAI), LC, Vol. 8, no. 9, September, 1959.
Uncl.

PLON.

Plon. (Panstwowe Wydawnictwo Rolnicze i Lesne) Warszawa. (Monthly illustrated journal of popular agriculture issued by State Agricultural and Forestry Publications) Recurrent features: Rationalizer's corner; From Soviet experience; News of agriculture; Mailbox; Reading suggestions.

SO: East European LC Vol. 2, No. 12, Dec. 1953

HIMMEL, A.; BOBINSKI, H.; PLONKA, A.

The influence of hyperglycaemic medium on potassium exchange rate in
human erythrocytes in vitro. Postepy. biochem. 8 no.4:583 '62.

1. z III Kliniki Chorob Wewnętrznych Wojskowej Akademii Medycznej
w Łodzi.
(POTASSIUM) (ERYTHROCYTES) (HYPERGLYCEMIA)

HIDMEL, A.; BOBINSKI, H.; PLONKA, A.

The influence of alloxan on potassium exchange rate in human erythrocytes in vitro. Postepy biochem. 8 no. 4: 582 '62.

1. z III Kliniki Chorob Wewnętrznych Wojskowej Akademii Medycznej w Łodzi.

(ALLOXAN) (POTASSIUM) (ERYTHROCYTES)

HIMMEL, A.; BOBINSKI, H.; PLONKA, A.

The influence of triamcinolon and dexamethasone on ^{42}K exchange rate
in erythrocytes. Postepy biochem. 8 no.4:581-582 '62.

1. Z III Kliniki Chorob Wewnetrznych Wojskowej Akademii Medycznej w
Lodzi.

(TRIAMCINOLOGY) (DEXAMETHASONE) (ERYTHROCYTES)
(POTASSIUM)

L 8882-66

ACC NR. AP6001625

SOURCE CODE: P0/0046/65/010/004/0213/0219
41

AUTHOR: Dorabialskia, Alicja—Dorabial'ska, A.; Flonka, Andrzej

B

ORG: Department of Physical Chemistry, Technical University of Lodz, Lodz

TITLE: Radiometric determination of ion self-diffusion mobilities. I. Method and results for dilute solutions of alkali metal chlorides

SOURCE: Nukleonika, v.10, no.4, 1965, 213-219

TOPIC TAGS: radiometry, ion, solution property, alkali metal, chloride, radicisotope, radiation chemistry

ABSTRACT: The development of the radiometric method of ion self-diffusion mobilities comparison and results for dilute solutions of alkali metal chlorides having suitable γ -emitting radicisotopes are presented. Orig. art. has: 5 figures, 6 formulas, 2 tables. NA

SUB CODE: 07, 20 / SUBM DATE: none / ORIG REF: 002 / OTH REF: 007

Card 1/1 side

L 0747-66	ETC/EPE(1)-2/ENG(m)/T	GG	
ACC NR: AP6001118		SOURCE CODE: PG/0046/65/010/005/0287/0296	
AUTHOR: Dorabialka, Alicja; Plonka, Andrzej			54 B
ORG: Department of Physical Chemistry, Technical University, Lodz		44,53	
TITLE: Radiometric determination of ion self-diffusion mobilities. II. Ion binding in polyelectrolyte solutions /	19		
SOURCE: Nukleonika, v. 10, no. 5, 1965, 287-296	44,55		
TOPIC TAGS: radiometry, solution property, electrolyte, radiation chemistry, ion			
ABSTRACT: Tracer transfer rate coefficients were measured in electrolyte and polyelectrolyte solutions by the radiometric method. The degree of ion binding in polyelectrolyte solutions was determined assuming additivity of tracer rate coefficients. Orig. art. has: 1 figure, 29 formulas, 6 tables. [NA]			
SUB CODE: U7, 2G	/	SUBM DATE: none	/ ORIG REF: 001 / OTH REF: 012
PO		Card 1/1	

PLONKA, Andrzej, dr inz.

Application of radioactive isotopes in studies on the
phenomenon of binding ion in polyelectrolytic solutions.
Wiad chem 18 no. 8:475-477 Ag '64.

1. Department of Physical Chemistry, Technical University,
Lodz.

L 15598-66 EWT(1)/ETC(f)/EWG(m) DS/AT/RM

ACC NR: AP008230

SOURCE CODE: PO/0046/65/010/006/0331/0335

AUTHOR: Dorabial'ska, Alicja--Dorabyal'ska, A.; Plonka, Andrzej

ORG: Department of Physical Chemistry, Technical University, Lodz

TITLE: Radiometric determination of ion self-diffusion mobilities. III.
Polyion selectivity in solutions 21, 44, 55

SOURCE: Nukleonika, v. 10, no. 6, 1965, 331-335

TOPIC TAGS: ion exchange, sodium, cesium, chloride, ion concentration, radiation chemistry

ABSTRACT: Sodium and cesium transfer rate coefficients were measured in mixed solutions of heparin sodium salt and cesium chloride. Variations of the ion exchange equilibrium quotient were dependent on the ion concentration ratio.

There was no evidence of polyion specific affinity. The paper is from a thesis submitted by A. Plonka at the Department of Chemistry, Technical University, Lodz, Poland, as partial fulfilment of the requirements for a Dr. Sc. degree.

Orig. art. has: 9 formulas and 3 tables. [NA]

SUB CODE: 07 / SUBM DATE: none / ORIG REF: 002 / OTH REF: 003

88
Card 1/1

L 1257-66
ACC NM: AP5028634

SOURCE CODE: PO/0046/65/010/003/0187/0188

AUTHOR: Plonka, Andrzej

ORG: Department of Physical Chemistry, Technical University of Lodz; Radioisotope Laboratory of IIIrd Department of Medicine, Military Academy of Medicine, Lodz

TITLE: Specific cation sequence in the interfusion effects in membrane kinetics

SOURCE: Nukleonika, v.10, no. 3, 1965, 187-188

TOPIC TAGS: cation, ion exchange, solution property, chemical labelling, radiation chemistry, chemical reaction kinetics

ABSTRACT: Studies previously showed that in a two-compartment system, phase 1-membrane-phase 2, the tracer movement against the concentration gradient of the traced substance exceeds that along with the gradient. The phenomenological origin of this effect was studied. The dependence of coefficients of tracer transfer rate from water into alkali metal chloride solutions as a function of solution concentration is shown. In all cases the coefficients of tracer transfer rate against concentration of alkali metal chlorides reached a constant value at a concentration of 1 to 2 mmoles per liter. The author would like to thank Alicja Dorabialska for many helpful discussions and Prof. Andrzej Himmel for much kindness. Orig. art. has: 1 figure. [NA]

SUB CODE: GC, NP / SUBM DATE: none / ORIG REF: 003 / OTH REF: 002

Cord 1/1 Df

PLONKA, Andrzej

The interfusion effect in membrane kinetics. Nukleonika 9 no. 6:
487-489 '64.

1. Department of Physical Chemistry, Technical University, Lodz,
and Radioisotope Laboratory, III Division of Medicine, Military
School of Medicine, Lodz.

HIMMEL, Andrzej, prof. dr. med.; PLONKA, Andrzej; TRIEF, Herman;
Wojciechowska, Elzbieta.

Effect of spasmophen on the velocity of gastric passage. Pol.
tyg. lek. 20 no. 9:307-308 1 Mr'65.

1. Z III Kliniki Chorob Wewnętrznych Wojskowej Akademii Medycznej
w Łodzi (prof. dr. med. Andrzej Himmel).

HIMMEL, Andrzej; BOBINSKI, Henryk; PLONKA, Andrzej

Evaluation of the rate of potassium exchange in human erythrocytes
under the influence of various concentrations of glucose in the blood
in vitro. Polskie arch. med. wewn. 32 no.4:315-318 '62.

1. Z III Kliniki Chorob Wewnętrznych WAM w Łodzi.
(POTASSIUM blood) (ERYTHROCYTES metab)
(BLOOD SUGAR)

HIMMEL, Andrzej; PLONKA, Andrzej; SCHMIDT, Marian

Effect of hyaluronidase and novocaine on vascular permeability. Pol.
tyg. lek. 17 no.11:381-383 12 Mr '62.

1. Z III Kliniki Chorob Wewnętrznych WAM w Łodzi; kierownik: prof. dr
med. Andrzej Himmel.

(HYALURONIDASE pharmacol) (PROCAINE pharmacol)
(BLOOD VESSELS pharmacol)

L 09187-67

ACC NR: AP7002750

SOURCE CODE: P0/0046/66/011/005/0319/0325

17

AUTHOR: Plonka, Andrzej

ORG: Department of Physical Chemistry; Technical University of Lodz, Lodz

TITLE: Coefficients of tracer transfer through membranes

SOURCE: Nukleonika, v. 11, no. 5, 1966, 319-325

TOPIC TAGS: fluid diffusion, positive ion

ABSTRACT: The relation between the coefficient of diffusion and coefficient of self-diffusion of sodium ions through cellophane membrane was verified experimentally. The former did not converge the latter as concentration of the solution decreased. The author thanks Professor A. Dorabialksa for helpful discussions. Orig. art. has: 4 figures, 14 formulas and 2 tables. [Orig. art. in Eng.] [NA]

SUB CODE: 07 / SUBM DATE: 22Dec65 / ORIG REF: 007 / OTH REF: 006

Card 1/1 nst

0925 1624

DADUN-SEK, Anna; PIENKA, Bogumil

Intensified vomiting reflex and its control in prosthetic work. Czas. stomat. 18 no.2:167-171 F '65.

1. Z Zakladu Protetyki Akademii Medycznej w Krakowiu
(Kierownik: prof. dr. H. Gerczynski).

WIGDOROWICZ-MAKOWEROWA, Noemi; PLONKA, Bogumil; DADUN, Anna

A quantitative measure of the efficacy of fluorine prophylaxis and its application in schoolchildren in Wroclaw. Arch. immun. ter. dosw. 9 no. 3: 519-525 '61.

1. Chair of Prosthetics, Department of Stomatology, School of Medicine, Wroclaw.

(FLUORIDATION)

WIGDOROWICZ-NAKOWROWA, Noemi; PLONKA, Bogumil

Clinical education of patients in the prosthetic treatment of
edentulous mouth. Czas. stomat. 19 no.1:71-75 Ja '66

1. Z Zakladu Protetyki Stomatologicznej AH we Wrocławiu (Kierownik: doc. dr. I. Wigdorowicz-Nakowrowa).

KONIECZNA-MARCZYNSKA, Barbara; PLONKA, Irena; SKOWRON-CENDRZAK, Anna;
ZABINSKI, J.

Hematological and serological investigations in heteroparabiosis after
preimmunisation of one of the parabionts. Folia biol 8 no.1/2:83-87
'60. (EEAI 10:4)

1. Department of Experimental Zoology, Polish Academy of Sciences,
Krakow and Department of Biology and Embryology, Medical Academy,
Krakow; head: Prof. Dr.S.Skowron.

(PARABIOSIS)

(BLOOD)

PLONKA, Irena

Influence of foreign protein on the development of leucopenia in
parabiosis of inbred C 57 BL mice. Folia biol 7 no.3:203-207, 1949
(EEAI 9:11)

1. Department of Biology and Embryology, Medical Academy, Krakow
(MICE) (PROTEINS) (PARABIOSIS)
(LEUCOPENIA) (BLOOD)

KONIECZNA-MARCZYNSKA, Barbara; PLONKA, Irena

Examinations of bone marrow in parabiotic white mice. Folia biol 8
no.3:167-172 '60.

1. Department of Biology and Embryology, Medical Academy, Krakow.
Head: S. Skowron, Ph.D.
(PARABIOSIS) (MARROW)

KONECZNA-MARCINEWSKA, Barbara; PLONKA, Irena

Further studies in parabiotic mice. Folia biol 7 no.3:209-214 '59.
(EEAI 9:11)

1. Department of Biology and Embryology, Medical Academy, Krakow.
(MICE) (PARABIOSIS) (BLOOD)

PLONKA, J.

Diagonal algebras and algebraic independence. Bul Ac Pol math
12 no.12:729-733 '64.

1. Institute of Mathematics of the Polish Academy of Sciences
and Mathematical Institute of the Wroclaw University. Submitted
October 12, 1964.

PLONKA, J. (Wroclaw)

On bases with respect to a closure operator with the exchange
property. Col math 10 no.1:25-29 '63.

PLONKA, Z.

PLONKA, Z. New ski paths and ski highways.
p. 8, No. 12, Dec. 1956
Warszawa, Poland
Turysta

SOURCE: East European Accessions List (EEAL) Vol. 6, No. 4--April 1957

PLONKA, Z.

International Contest of Mountain First Aid. p. 22; TURYSTA. (Polskie Towarzystwo Turystyczno-Krajoznawcze) Warszawa; No. 5, May 1955.

SOURCE: East European Accessions List (EEAL), Library of Congress,
Vol. 4, No. 12, December 1955.

PLONKA, Z.

Gorce Mountains discovered for the second time. p. 7. TURYSTA.
(Polskie Towarzystwo Turystyczno-Krajoznawcze) Warszawa. No. 3,
Mar. 1955.

SOURCE: East European Acquisitions List, (EEAL), Library of
Congress, Vol. 4, no. 12, December 1955

PLONKA, Z.

PLONKA, Z. Days of horror in the Tatras. p. 15, No. 4, April 1956. Poland,
Warszawa Turysta

SOURCE: East European Accessions List (EEAL) Vol. 6, No. 4--April 1957

PLONKA, Z. ; KEDZIOR, J.

"Forgotten Skiing Places." P. 14,
(TURYSTA, No. 1, Jan. 1954, Warszawa, Poland.)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 3,
No. 12, Dec. 1954, Unclassified.

PL'ONKIN, Yu., nauchnyy sotrudnik

Facing the storm. Znan. ta pratsia no.12:6-7 D '62. (MIRA 16:1)

1. TSentral'nyy nauchno-issledovatel'skiy institut morskogo flota.
(Naval architecture)

(A) I 11240-66 IWT(m)/EWP(j)/T/EWA(g)/ETC(m) NR/RM
 SOURCE CODE: UR/0190/65/007/012/2177/2178
 ACC NR: AP60018711 44 55 34 :
 AUTHOR: Plonka, Z. Yu.; Al'brekht, V. M. 32 :
 44 55 1. 33 .

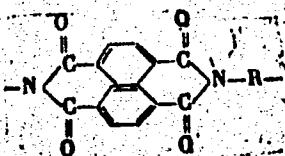
ORG: none

TITLE: Synthesis of polyimides of 1, 4, 5, 8-naphthalenetetracarboxylic acid

SOURCE: Vysokomolekulyarnyye soyedineniya, v. 7, no. 12, 1965, 2177-2178

TOPIC TAGS: polyimide, heat resistant plastic, fire resistant material

ABSTRACT: New aromatic polyimides with repeat units of the type,



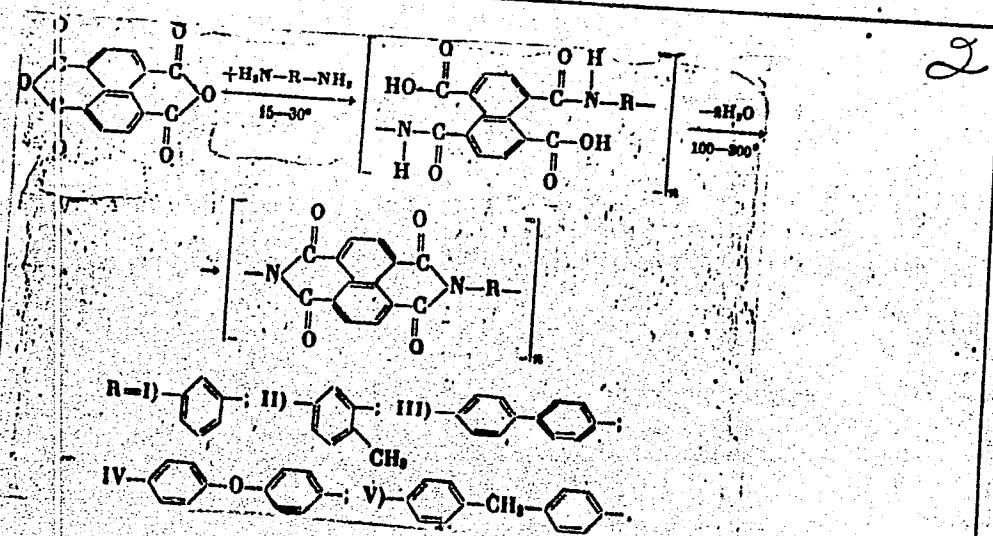
have been prepared by the reaction of 1, 4, 5, 8-naphthalenetetracarboxylic anhydride with aromatic diamines in N, N-dimethylformamide or N, N-dimethylacetamide:

Cord 1/2

UDC: 541.64+678.675

L 11240-66

ACC NR: AP6001873



The polymers were light yellow (III-V) or grey-brown (I, II) materials insoluble in the common organic solvents (II is soluble in m-cresol) but soluble in concentrated H_2SO_4 and HNO_3 . When subjected to temperatures above 600°C or to the open flame of a burner, they do not fuse or burn but slowly carbonize. Polymers III-V yielded rigid transparent films.

[SM]

SUB CODE: 11 SUBM DATE: 12Jul65/ OTH REF: 003/ ATD PRESS: 4173
Card 2/2 CC

~~Płonka Halina~~ Płonka, Halina

PUL.

✓**Groceries:** determination of the degree of extraction and of acidity. Cecylia Hirschfeld, Jan Zelcik, and Halina Płonka. "Roczniki Państwowego Zakładu Nauk. i Techn. (1954) (English summary).—The purpose of this study was the establishment of standards for the degree of extrn. and for acidity of groats on the Polish market. Thirty samples of barley groats produced in 1952 and 90 samples of different types of groats produced in 1953 were examined. The upper limit for ash content (dry basis) was established as follows: semolina 0.6, crushed barley groats 1.6, roasted buckwheat groats 2.5, nonroasted variety 2.0%, millet groats 1.4%. The upper limit for the overall acidity should not exceed 3% for semolina and 5% for barley and buckwheat groats. Different methods for the detn. of acidity and the degree of extrn. were also compared. It was concluded that the methods for the detn. of the degree of extrn. are comparable. However, even apparently similar methods for the detn. of acidity give results which are not comparable. The most suitable method for the detn. of acidity is the titration of a suspension after heating in a boiling water bath. Bromothymol blue and phenolphthalein are used as indicators.

Alice B. Bremner

PLONSKAYA, V. P.

Plonskaya, V. P. "Evaluation of the health condition of breast-fed children from data of continuous cases of observation," Turdy VI Vsesoyuz, s'yezda det. vrachey, posvyashch. pamyati prof. Filatova, Moscow, 1948, p. 125-32

SO: U-3264, 10 April 1953, (Létopis 'Zhurnal 'nykh Statey, No. 3, 1949)

PLONSKAYA, V.I.

Medical services for infants in polyclinics combined with children's hospitals. Pediatriia, Moskva no.2:58-62 Mr-Ap '50. (CLML 19:2)

1. Of the Department of Public Health Organization, Second Moscow Medical Institute imeni I.V.Stalin (Head of Department -- Prof. G.A. Batkis, Corresponding Member of the Academy of Medical Sciences).

PLONSKAYA, V.

PLONSKAYA, V. P.

Follow up data on physical development of infants. *Pediatrija*,
Moskva No. 4, July-Aug. 50. p. 49-56

1. Of the Department of Public Health Organization (Head--Prof.
G. A. Baticis, Corresponding Member of the Academy of Medical
Sciences), Second Moscow State Medical Institute imeni I. V. Stalin,
Moscow.

CLML 19, 5, Nov., 1950

PLONSKAYA, V.P.

BATKIS, G.A.; PLONSKAYA, V.P.

Role of clinics and consultation centers (polyclinics) in pediatric hospital in infant welfare. Pediatriia, Moskva No.5:50-54 Sept-Oct 51. (CLML 21:4)

1. Prof. Batkis; Docent Plonskaya. 2. Of the Department for the Organization of Public Health Care, Second Moscow State Medical Institute imeni I.V. Stalin (Head of Department--Prof. G.A. Batkis, Corresponding Member of the Academy of Medical Sciences USSR).

PLONSKAYA, V. P.

"The State of Health of Breast Fed Children According to the Data Obtained by Continuous Observation." Sub 18 Jun 51, Second Moscow State Medical Inst imeni I. V. Stalin.

Dr. Med. Sci.

Dissertations presented for science and engineering degrees in Moscow during 1951.

SO : Sum. No. 480, 9 May 55

1. PLONSKAYA, V. P.
2. USSR (600)
4. Infants - Care and Hygiene
7. Continuous care of infants. Vop. pediat. i okhr. mat. i det. 20 no. 5, 1952

9. Monthly List of Russian Accessions, Library of Congress, January 1953. Unclassified.

PLONSKAYA, V.P., professor, zavedmyushchiy; SHUTOVA, N.T., professor, direktor.

Dispensary service for children. Vop.pediat. 21 no.3:51-55 My-Je '53.
(MLRA 6:7)

1. Kafedra organizatsii zdravookhraneniya Leningradskogo gosudarstvennogo
pediatriceskogo meditsinskogo instituta (for Plonskaya). 2. Leningradskiy
gosudarstvennyy pediatriceskiy meditsinskiy institut (for Shutova).
(Pediatrics) (Children--Hospitals and asylums)

PLONSKAYA, V.P., professor.

Organization of measures for prevention of acute nutritional
and digestive disorders in infants. Pediatriia no.4:73-77
Jl-Ag: '55. (MLRA 8:12)

1. Iz kafedry organizatsii zdravookhraneniya (zav.-prof. V.P.
Plonskaya) Leningradskogo pediatriceskogo meditsinskogo
instituta (dir.-prof. N.T.Shutova)
(INFANT NUTRITION DISORDERS, prevention and control)

PLONSZKAJA, V.

"Preventive medical care for the infantile population. Tr. from the Russian.
p. 235. (NEPEGESZSEGUGY. Vol. 34, No. 9, Sept. 1953. Budapest, Hungary).

SO: Monthly List of East European Accessions, LC, Vol. 3, No. 4, April 1954

PLONSKAYA, V.P., professor

Health of premature infants during their first three years of life.
Vop.oki.mat. i det. 1 no.3:53-58 My-Je '56. (MLB 9:9)

1, Iz kafedry organizatsii zdravookhraneniya (zav. - prof. V.P. Plonskaya) Leningradskogo gosudarstvennogo pediatriceskogo meditsinskogo instituta (dir. - prof. N.T.Shutova)
(INFANTS (PREMATURE))

PLONSKAYA, Ye.I.

Physiological role of the external stimulus coinciding in time with a movement leading to the removal of food. Trudy Inst. vys. nerv. deiat. Ser. fiziol. 5:186-192 '60.

(MIRA 13:10)

1. Iz laboratorii dvigatel'nykh uslovnykh refleksov (zav. - G.V. Scipin) instituta vysshey nervnoy deyatel'nosti.
(CONDITIONED RESPONSE)

PLONSKAYA, Ye. I.

Problem of the physiological mechanism of intersignal movements.
Zhur.vys.nerv.deiat. 9 no.4:593-601 Jl-Ag '59. (MIRA 12:12)

1. Institut vysshey nervnoy deyatel'nosti Akademii nauk SSSR.
(REFLEX CONDITIONED)

PLONSKAYA, Ye.I.

Bilateral behavior of the stimulation process along pathways of a temporary connection between two foci of afferent excitation in the cerebral cortex. Trudy Inst. vys. nerv. deiat. Ser. fiziol. 3:221-226 '59. (MIRA 12:3)

1. Iz Laboratorii dvigatel'nykh uslovnykh refleksov, zav. - G.V. Skipin.
(CEREBRAL CORTEX)

PLONSKAYA, Ye. I.

State of the cortical extremity of the kinesthetic analyser during excitation of the food center. Trudy Inst.vys.nerv.deiat. Ser.fiziolog. 2:95-101 '56. (MLRA 10:1)

1. Iz laboratorii dvigatel'nykh uslovnykh refleksov, zav. - G.V.
Skipin. (CONDITIONED RESPONSE) (INHIBITION)

PLONSKAYA, Ye. I.

Role of spatial vision in the formation and coordination of certain
forms of motor activities in dogs. [with summary in English].
Zhur.vys.nerv. deiat. 8 no.5:717-723 S-0 '58 (MIRA 12:1)

1. Institut vysshey nervnoy deyatel'nosti AN SSSR.
(MOVEMENTS, physiology

eff. of spatial vision on form & coordination of motor
activities in dogs (Rus))
(SPACE PERCEPTION,
same (Rus))

PLONSKAYA, Ye. I., Cand Med Sci--(diss) "Interrelation between conditioned and non-conditioned food reflexes and its effect ^{upon} ~~upon~~ internal signal reactions" Mos, 1958. 16 pp (Acad Sci USSR. Inst of Higher Nervous Activity), 120 copies (KL 25-58,119)

-174-

PLONSKAYA, Ye. I.

Role of inhibited conditioned connections in the formation of
new forms of motor activity. Trudy Inst.vys.nerv.deiat. Ser.
fiziol. 4:31-36 '60. (MIRA 13:7)

I. Iz Laboratori 1vigate1'nykh uslovnykh refleksov Instituta
vysshoy nervnoy deyatel'nosti AN SSSR. Zaveduyushchiy laboratoriye -
G.V. Skripin.

(CONDITIONED RESPONSE) (INHIBITION)

PLONSKAYA, Ye.I.

Conditional-conditioned alimentary motor reflexes in dogs.
Trudy Inst.vys.nerv.deiat. Ser.fisiol. 4:37-46 '60.

(MIRA 13:7)

l. Iz Laboratorii dvigatel'nykh uslovnykh refleksov Instituta
vysshey nervnoy deyatel'nosti AN SSSR. Zaveduyushchiy laboratoriye
G.V. Skipin.

(CONDITIONED RESPONSE)

PLONSKI, Jan

Contribution to the epidemiology of Trichomonas vaginalis.
Ginek. pol. 34 no.3:395-399 '63.

1. Z I Kliniki Poloznictwa i Chorob Kobiecych AM w Warszawie
Kierownik: prof. dr med. T. Bulski.
(TRICHOMONAS VAGINITIS) (EPIDEMIOLOGY)

PLONSKI, Jan; BIELSKA, Hanna; BILINSKI, Andrzej

Comparative analysis of phonocardiograms in fetuses and of phonocardiograms in newborn infants. Ginek. pol. 33 no.3:367-371 '62.

1. Z I Kliniki Polonictwa i Chorob Kobiecych AM w Warszawie Kierownik:
prof. dr med. T. Bulski.
(FETAL HEART) (INFANT NEWBORN) (PHONOCARDIOGRAPHY)

BULSKI, Tadeusz; PLONSKI, Jan

Fetal phonocardiography. Polski tygod. lek. 16 no.48:1841-1846
27 N '61.

1. Z II Kliniki Poloznictwa i Chorob Kobiecych A.M. w Warszawie;
kierownik: prof. dr Tadeusz Bulski.
(FETUS physiol) (PHONOCARDIOGRAPHY in pregn)

PLONSKI, Kazimierz

Cooperation between military and civilian medical services in
venereal disease control. Przegl. derm. 51 no.4:397-400 Jl-Ag '64

PLONSKI, Wladyslaw, dr inz.

Results of studies on, and evaluation of certain building materials
as to their thermophysical properties. Inst tech budow biul inf no.
14:35-40 '63

1. Department of Thermal Physics, Institute of Construction
Engineering, Warsaw.

PLONSKI, Wladyslaw, dr inz.

Criteria of physical and thermal evaluation of building partitions.
Inst tech bud biul inf no.17:6-10 '64.

Thermal and humidity problems of buildings erected of Zeran brick.
Ibid.:10-13

Testing and thermal and physical evaluation of WPP-type prototype
buildings. Ibid.:14-18

1. Department of Thermal Physics of the Institute of Civil Engineering,
Warsaw.

PLONSKI, Wladek, dr inż.

Research on the thermal and hygrometric properties of cellular concrete made of calcareous aggregates. Inst tech budow inf no.1247-54 '63.

1. Zaklad Fizyki Budowlanej, Instytut Techniki Budowlanej,
Warszawa.

PLONSKI, Wladyslaw, dr inz.

International Conference on Plastics in Building in Halle,
German Democratic Republic. Inst tech budow biul inf no.11:
62-64 '62.

1. Zaklad Fizyki Cieplnej, Instytut Techniki Budowlanej,
Warszawa.

PLONSKIY, A., kand.tekhn.nauk

Heat + electrons + motion-picture film. Znan.sila 36 no.7:
14-15 Jl '61. (MIRA 14:9)

(Video tape recorders and recording)
(Motion pictures)

PLONSKY, A.F.

PHASE I BOOK EXPLOITATION

426

Fomin, Boris Vasil'yevich

Radioelektronika v nashey zhizni (Radio Electronics in Our Life)
Moscow, Gostekhizdat, 1957. 62 p. (Series Nauchno-populyarnaya
biblioteka, vyp. 95) 150,000 copies printed.

Ed.: Plonskiy, A. F.; Tech. Ed.: Murashova, N. Ya.

PURPOSE: This booklet, intended for the general reader, sets forth the fundamentals of radio electronics in their various applications.

COVERAGE: Written in popular form, the booklet describes electronic equipment, its use in private and public life, in industry, agriculture and science and in the fields of automation and electrical communications. Future developments are briefly outlined. No personalities are mentioned. There are no references.

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Radio Electronics in Our Life**426****TABLE OF
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AVAILABLE: Library of Congress (TK7819.F6)
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JJP/jmr
7-14-58

PLONSKY, etc.

33. Application of Computers to Translation of Foreign Literature

Zaglyanem v Buduscheye (Let's Peek Into the Future), by A.
Plonskiy, Moscow, Gospolitizdat, 1957, pp 30-40

"Soviet scientists are in step with the scientists from abroad in developing and improving the high-speed electronic machines. The Academy of Sciences USSR conducts very promising experiments on translation of various languages. To establish the exact meaning of a word having several meanings the machine analyzes adjacent words and conducts a large number of checks and possible combinations. The machine's vocabulary, in addition to individual words, includes whole grammatical combinations. Therefore, the translation becomes perfectly grammatical. However, the vocabulary of an electronic machine is limited; word storage is rather small. But the simple technical text is translated by the 'automatic translator' much faster and more accurately than by a person possessing a full command of the language.

"Scientists have estimated that about 3 million articles and about 50,000 scientific-engineering books and hundreds of thousands of patents are printed annually. There would not be enough men or time to translate all this into Russian.

"At the Institute of Scientific Information, Academy of Sciences USSR, 1,500 translators are engaged permanently. In 1954 they translated 7,000 foreign periodicals.

"Application of electronic machines on a wide scale to translation of scientific-engineering texts would result in a great economic achievement, and would greatly increase the volume of output." (U)

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E192/E482

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AUTHOR: Plonskiy, A.F.TITLE: On the Problem of Increasing the Temperature Stability
of Precision Quartz ResonatorsPERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Radiotekhnika,
1960, No.3, pp.326-336

TEXT: The problem of increasing the temperature stability of piezoelectric resonators is of importance in the design of high-stability standard signal generators. Two methods of thermal compensation of the resonators are dealt with. One of these was proposed in 1958 (Ref.11 and 12) and it is based on the use of thermistors. The second method was proposed by the author earlier (Ref.13) and this is based on the choice of the operating point in the interval between the series and the parallel resonances of the piezoelectric element. The first method is illustrated in Fig.1. Here a compensating element consisting of a resistance and a reactance is connected in series or in parallel with the resonator. In the circuit of Fig.1, two parallel bipoles consisting of L_0 , R_{01} , R_{t1} and C , R_{t2} , R_{02} are employed for the purpose of

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E192/E482On the Problem of Increasing the Temperature Stability of
Precision Quartz Resonators

compensation. Such a complicated system is usually used for the piezoelectric crystals having a parabolic temperature dependence curve. It is clear that the presence of a compensating network will result in lowering the Q-factor of the resonant element. For the purpose of estimating this effect, it is assumed that the system is compensated by an inductance and a resistance so that the equivalent circuit can be represented as shown in Fig.2, where r_t is the resonant resistance which takes into account R_{t1} and R_{01} at a frequency ω different from ω_1 (where ω_1 is the resonance frequency). The equivalent Q of the compensating system is expressed by Eq.(2), where

$$\beta = \frac{\omega}{\omega_1} - \frac{\omega_1}{\omega}$$

in this formula Q_1 represents the quality factor of the crystal element itself. At small detunings, Eq.(2) can be written

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approximately as

$$Q \cong \frac{Q_1}{1 + \frac{Q_1 \cdot L_1}{Q_0 \cdot L_0} \cdot \beta^2} \quad (3)$$

where Q_0 is the quality factor of the compensating network. From Eq.(3), it is seen that the presence of the compensating network leads to a rapid deterioration of Q of the resonant circuit. Thus, if $Q_1 = 10^7$ it is found that in a typical case the introduction of a typical compensating network reduces this value to $Q = 10^5$. It is clear that the capacitive network $C R_{t2} R_{02}$ will introduce a further reduction in the quality factor of the circuit. Another type of compensating network is available; this is suitable for the circuits operating under series resonance conditions and it is shown in Fig.4. Also in this case the quality

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factor of the resonance system is significantly reduced. During his experimental investigations with piezoelectric crystals, the author found that the temperature-frequency coefficient depends on the position of the operating point ω within the frequency interval between the series and parallel resonances, ω_1 and ω_2 . This effect is illustrated in Fig. 5 and 6, which show a family of frequency-temperature curves for a z-cut parallel bar and for a rectangular bar of z-45° cut. The frequency in the interval $\omega_1 - \omega_2$ is expressed by the known formula

$$\omega \approx \omega_1 + \frac{\omega_1}{2} \cdot \frac{C_1}{C_0 + C} \quad (4)$$

where C is the capacitance of the gap between the electrode and the bar or the external capacitance connected in series with the resonator. By examining this formula, it is concluded that by

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E192/E482**On the Problem of Increasing the Temperature Stability of Precision Quartz Resonators**

choosing the external capacitance C with a suitable temperature coefficient, it is possible to compensate the temperature instability of the resonator. This effect was investigated by employing a crystal which was placed in a standard laboratory thermostat. The crystal was used in the oscillator circuit shown in Fig.8. This is a 3-stage system consisting of an excitation circuit based on transistors and a feedback circuit composed of the crystal and some passive elements. The purpose of this feedback quadripole is to reduce the coupling between the resonator and the excitation circuit and to produce the necessary 150° phase-shift between the input and the output. The feedback quadripole is illustrated in Fig.9a. It is seen that the resonator is connected between resistance R (such that $R \ll R_1 \ll \omega L_K$, where R_1 is the equivalent resistance of the resonator) and capacitance C . The resonant frequency ω_p of the oscillator whose resonator system is formed of the crystal resonator and capacitance C is slightly higher than ω_1 . At this frequency ω_p , the crystal behaves as a small inductance $L_q = 1/(\omega_p^2 C)$. Due to the voltage resonance

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E192/E482**On the Problem of Increasing the Temperature Stability of Precision Quartz Resonators**

in the circuit, the voltage across C is greater than the voltage at the input of the quadripole. The circuits $L_K C_K$ and $L_Q C$ are tuned to the frequency ω_p . The resistance R is very small in comparison with the equivalent resistance of the resonator, so that the Q-factor of the system is not affected. Due to a very large gain margin in the circuit of Fig.8, it is possible to obtain oscillations at any frequency ω_p lying between ω_1 and ω_2 . It was found experimentally that the temperature-frequency coefficient of the system could be varied by choosing the operating frequency ω_p . Thus, for example, in the absence of the series capacitance the average temperature-frequency coefficient was 0.8×10^{-6} per 1°C . In the presence of a series capacitance of 20 pF this coefficient was reduced to 0.7×10^{-7} per 1°C . The frequency-temperature curves of the system for the capacitances of 20 and 50 pF are shown in Fig.10. On the whole, the relative frequency instability of a piezoelectric resonator placed in vacuum can be expressed by

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$$\left(\frac{\Delta\omega}{\omega}\right)_r = \left(\frac{\Delta\omega}{\omega}\right)_t + \left(\frac{\Delta\omega}{\omega}\right)_c + \left(\frac{\Delta\omega}{\omega}\right)_B \quad (6)$$

where $(\Delta\omega/\omega)_t$ is the relative instability due to the temperature changes, $(\Delta\omega/\omega)_c$ is the relative instability due to the ageing of the crystal and $(\Delta\omega/\omega)_B$ is the relative instability due to the oscillator circuit. The relative magnitudes of these three unstabilizing factors, together with the overall instability, are shown in Table 1; the first column shows the instability for an oscillator with the thermal compensation, the second column gives the instability of a resistance-compensated oscillator, while the third column shows the instability in an oscillator which is compensated by choosing the optimum operating point. It is seen that the best results are obtained by the last method. There are 10 figures, 1 table and 14 references: 11 Soviet and 3 non-Soviet.

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On the Problem of Increasing the Temperature Stability of
Precision Quartz Resonators

ASSOCIATION: Kafedra konstruirovaniya i tekhnologii
proizvodstva radioapparatury Chelyabinskogo
politekhnicheskogo instituta (Department of
Construction and Production Technology of Radio
Equipment of Chelyabinsk Polytechnical Institute)

SUBMITTED: November 23, 1959 (initially)
January 29, 1960 (after revision)

Card 8/8

X

PLONSKIY, A. F.

Technology

(Piezo-electric crystal in communication engineering). Moskva, Gosenergoizdat, 1951.

9. Monthly List of Russian Accessions, Library of Congress November 1958, Unclassified.

PLONSKIY A.

PA 236T43

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001341310017-0"

USSR/Electronics - Electronic Keys

Sep 52

"An Electronic Key" A. Plonskiy (UA3DM)

"Radio" No 9, pp 37-39

Describes an electronic key which can be used to transmit text with a speed of more than 200 characters per minute with excellent clarity. Describes in detail the multivibrator, which is the essential part of the key.

236T43

PLONSKIY, A.Y.; SHALIMOVА, K.V., redakteř; GOLUBKOVA, L.A., tekhnicheskiy
redakteř.

[Piezoelectricity] Piezoelektricheskiye. Moskva, Gos.izd-vo tekhnika-
teoret. lit-ry, 1953. 61 p. (Nauchno-populiarnaya biblioteka, no.60)
[Microfilm] (Piezoelectricity) (MIRA 9:6)

USSR/Electronics - Piezoelectricity
PLONSKY, A.

Apr 53

"Application of Piezoelectric Devices," A. Plonskiy

"Radio, No 4, pp 23-25

General account of the use of piezoelectric devices as ultrasonic radiators, as transducers for the measurement of pressure, acceleration, and vibrations, as the sensitive element in quartz clocks, etc. A. V. Shubnikov, V. M. Vul', and V. P. Konstantinova are credited with developing a theory of piezoelectricity.

205 T71

PLONSKIY, A.

Popov, Aleksandr Stepanovich, 1859-1906

A. S. Popov and Soviet radiotechnology. Radio No. 5, 1953.

Monthly List of Russian Accessions, Library of Congress, June 1953. Uncl.

PILONSKIY, A.F.

[Amateur radio communications on metric waves] Liubitel'sknaia radiosviaz' na metrovymkh volnakh. Moskva, Gos. energeticheskoe izd-vo, 1953. 86 p.

(MLRA 6:8)
(Radio, Short-wave)

PLONSKIY, A.I.; BERG, A.I., redaktor; DEZHIGIT, I.S., redaktor; YELIN, O.G.,
redaktor; KULIKOVSKIY, A.A., redaktor; SMIRNOV, A.D., redaktor;
TARASOV, F.I., redaktor; TRAMM, B.I., redaktor; CHECHIK, P.O.,
redaktor; SHASHMUR, V.I., redaktor; SENCHENKOV, A.P., redaktor;
SKVORTSOV, I.M., tekhnicheskiy redaktor

[Quartz resonators] Kvartsevye rezonatory. Moskva, Gos. energ.
izd-vo, 1954. 94 p. [Microfilm] (MLRA 7:10)
(Electric resonators)

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001341310017-0

PLOSHKIY, A.I.; KATRENKO, D.A., redaktor; GAVRILOV, S.S., tekhnicheskij
redaktor.

[Radio] Radio. Moskva, Gos. izd-vo tekhn.-teoret. lit-ry, 1954.
47 p. (Nauchno-populiarnaja biblioteka, vyp. 73) [Microfilm]
(Radio) (MIRA 7:11)

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001341310017-0"

SHTERNVEL'D, Aric Abramovich; PLONSKIY, A.P., redaktor; GAVRILOV, S.S.,
tekhnicheskij redaktor

[Interplanetary flights] Mezhplanetnye polety. Moskva, Gos. izd-
vo tekhniko-teoret.lit-ry, 1955. 54 p. (Nauchno-populiarnaja
biblioteka, no.82) (MIRA 9:3)
(Interplanetary voyages)

BELOV, Konstantin Petrovich, doktor fiziko-matematicheskikh nauk; PLON-SKIY, A.F., redaktor; AKHLMOV, S.H., tekhnicheskiy redaktor

[What is magnetism?] Chto takoe magnetizm. Moskva, Gos.izd-vo tekhniko-teoret.lit-ry, 1955. 62 p. (Nauchno-populiarnaia biblioteka, no.81) (MLRA 9:2)

(Magnetism)

112-57-7-15893D

Translation from: Referativnyy zhurnal, Elektrotehnika, 1957, Nr 7, p 294 (USSR)

AUTHOR: Plonskiy, A. F.

TITLE: Frequency Control of Piezoelectric Oscillatory Systems
(Upravleniye chastotoy p'yezoelektricheskikh kolebatel'nykh sistem)

ABSTRACT: Bibliographic entry on the author's dissertation for the degree of Candidate of Technical Sciences, presented to Vses. n.-i. in-t fiz.-tekhn. i radiotekhn. izmereniy (All-Union Scientific-Research Institute of Physics-and-Engineering and Radio-Engineering Measurements), Moscow, 1956.

ASSOCIATION: Vses. n.-i. in-t fiz.-tekhn. i radiotekhn. izmereniy (All-Union Scientific-Research Institute of Physics-and-Engineering and Radio-Engineering Measurements)

Card 1/1

ZIGEL', Feliks Yur'yevich, kandidat pedagogicheskikh nauk; PLONSKIY, A.F.,
redaktor; GAVRILOV, S.S., tekhnicheskiy redaktor

[What are comets?] Chto takoe komety. Moskva, Gos. izd-vo
tekhniko-teoret. lit-ry, 1956. 30 p. (Nauchno-prosvetitel'naya
biblioteka, no.10) (MIRA 9:9)
(Comets)

VASIL'YEV, Mikhail Vasil'yevich; PLONSKIY, A.F., redaktor; GAVRILOV, S.S.,
tekhnicheskiy redaktor

[Water works for us] Voda rabotaet. Moskva, Gos. izd-vo tekhniko-teoret. lit-ry, 1956. 39 p. (Nauchno-populiarnoi biblioteka, no.84)
(Water) (Hydroelectric power)

ZEMKOVICH, Vsevolod Pavlovich, doktor geograficheskikh nauk; PLONSKIY, A.F.,
redaktor; MURASHOVA, N.Ya., tekhnicheskiy redaktor

[The bottom of the sea] Morskoe dno. Moskva, Gos. izd-vo tekhniko-
teoret. lit-ry, 1956. 54 p. (Nauchno-populiarnaia biblioteka, no.86)
(Ocean bottom)

BAYEV, Lev Konstantinovich; MERKULOV, Igor' Alekseyevich; PLONSKIY, A.F.,
redaktor; GAVRILOV, S.S., tekhnicheskiy redaktor

[Rocket plane; jet aviation] Samolet-raketa; reaktivnaia aviatsiya.
Izd. 3-e, perer. Moskva, Gos. izd-vo tekhniko-teoret. lit-ry, 1956.
55 p. (Nauchno-populiarnaia biblioteka, no.39) [Microfilm] (MLRA 9:8)
(Airplanes--Jet propulsion)

PLONSKII, Aleksandr Philippovich; MEZENTSEV, V.A., redaktor; GAVRILOV, S.S.,
tekhnicheskiy redaktor

[Piezoelectricity] P'ezos elektrichestvo. Izd. 2-oe. Moskva, Gos.
izd-vo tekhniko-teoret. lit-ry, 1956. 55 p. (Nauchno-popoliarnaia
biblioteka, no.60)
(Piezoelectricity) (MIRA 9:10)

PLONSKIY, A.I.; MEZENTSEV, V.A., redaktor; GAVRILOV, S.S., tekhnicheskiy
redaktor

[Measurements and measures] Izmereniia i mery. Moskva, Gos. izd-vo
tekhniko-teoret. lit-ry, 1956. 61 p. (Nauchno-populiarnaiia biblioteka
no. 87) (MLRA 9:10)

(Measuring instruments) (Weights and measures)

PLONSKIY, A.F.

Category : USSR/Radiophysics - Generation and Conversion of Radio-frequency I-4
Oscillations

Abs Jour : Ref Zhur - Fizika, No 2, 1957, No 4480

Author : Plonskiy, A.F., Smagin, A.G., Shembel', B.K.

Title : Quartz Resonator with a Q Greater than Ten Million

Orig Pub : Izmerit. tekhnika, 1956, No 3, 51-52

Abstract : Report on the development of evacuated quartz resonator for 500 kc with a record high Q of 1.7×10^7 . The width of its resonance curve $2\Delta f \approx 0.05$ cycles, and therefore Q was measured from the attenuation time of the free oscillations ($T \approx 11$ seconds). The prepared resonator represents a polished quartz lens with a AP section, 38 mm in diameter, and 3.8 mm thick in the center. Another 500 kc resonator (with 18 mm diameter) had a $Q \gtrsim 2 \times 10^6$.

Card : 1/1

22 CAD 7.77
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tekhn. red.

[Thermoelectricity] Termoelektrichestvo. Moskva, Gos.izd-vo tekhniko-
teoret. lit-ry, 1957. 54 p. (Nauchno-poziarnaja biblioteka, no.97)
(Thermoelectricity) (MIRA 11:3)

PLONSKIY, A.F.

MERKULOV, Igor' Alekseyevich; KVASNIKOV, A.V., zasluzhennyy deyatel' nauki
i tekhniki, prof.; red.; PLONSKIY, A.F., red.; GAVRILOV, S.S.,
tekhn. red.

[Gas turbine] Gazovaya turbina. Pod red. A.V.Kvasnikova. Moskva,
Gos.izd-vo tekhn.-teoret. lit-ry, 1957. 54 p. (Nauchno-podoliarnaja
biblioteka, no.94) (MIRA 11:2)
(Gas turbines)

PLONSKIY, A.F.

CHESTNOV, Fedor Ivanovich; PLONSKIY, A.F., redaktor; YERMAKOVA, Ye.A.,
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[Invisible pilot] Mezrimyi putevoditel'. Moskva, Gos.izd-vo
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no.92) (MIRA 10:11)

(Radar)

PLONSKIY, Aleksandr Filippovich; SIFOROV, V.I., redaktor; PETROVA, S., redaktor; MUKHIN, Yu. tekhnicheskij redaktor.

[Let us take a look into the future; present and future radioelectronics]
Zaglianem v budushchee; radioelektronika segondia i zavtra. Pod obshchei
red.V.I.Siforova. Moskva, Gos. izd-vo polit.lit-ry, 1957 69 p.

(MLRA 10:5)

1.Chlen-korrespondent Akademii nauk SSSR(for Siforov)
(Electronics)

PLONSKIY, A.F.

KAPTSOV, Nikolay Aleksandrovich, prof.; PLONSKIY, A.F., red.; MURASHOVA, N.Ya.,
tekhn.red.

[Pavel Nikolaevich IAblochkov; his life and work] Pavel Nikolaevich
IAblochkov; ego zhizn' i deiatel'nost'. Moskva, Gos.izd-vo
tekhniko-teoret. lit-ry, 1957. 95 p. (MIRA 10:12)
(IAblochkov, Pavel Nikolaevich, 1847-1894)

PLONSKIY, Aleksandr Filippovich; CHERNYSHEVA, Yu., red.; TYUNYEVA, A.,
tekhn. red.

[Science, peace, communism] Nauka, mir, kommunizm. Moskva, Gos.
izd-vo polit.lit-ry, 1959. 149 p. (MIRA 12:9)
(Science--Miscellanea)

PLONSKIY, Aleksandr Filippovich, kand. tekhn.nauk, dots.;
MEL'NIKOVA, Zh.M., red.; RAKITIN, I.T., tekhn.red.

[The crystal and radio electronics] Kristall i radio-
elektronika. Moskva, Izd-vo "Znanie," 1964. 39 p. (Novoe
v zhizni, nauke, tekhnike. IV Seriya: Tekhnika,no.1)
(MIRA 17:2)

PLONSKIY, Aleksandr Filippovich; SIFOROV, V.I., nauchnyy red.; BERENSON, Yu.E., red.; YUSFINA, N.L., tekhn.red.

[Radio electronics, or the story of wonderful inventions: how man tamed the waves; the new Aladdin and his lamp; how they listened in on the conversation of the stars; hundreds of professions for the "thinking" machine; and many other subjects] Radioelektronika ili rasskaz ob udivitel'nykh otkrytiakh: o tom, kak chelovek priruchil volnu, o novom Aladine i ego lampe, o tom, kak podslushali razgovor zvezd, o sta professiakh "mysliashchei" mashiny i o mnogom drugom. Moskva, Sovetskaya Rossiia, 1958. 222 p. (MIRA 12:4)

1. Chlen-korrespondent Akademii nauk SSSR (for Siforov).
(Electronics)